SIN 367

Issue 2.10
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Suppliers' Information Note

For The BT Network

Characteristics of the BT Network:
Electrical Safety and EMC

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1 Scope

This Suppliers' Information Note (SIN) describes the electrical safety and Electro-Magnetic Compatibility (EMC) characteristics of the interfaces of BT's fixed telecommunications network as presented to customers at the Network Termination Point (NTP).

Changes to the network that affect the correct working of terminal equipment will be published in BT SINs. If the changes impact on the content of this document then it will be updated.

2 Electrical Safety

2.1 General

British Telecommunications plc considers that NTPs of BT's fixed telecommunications network satisfy the requirements of the Electricity at Work Regulations in as far as is reasonable and practicable. We believe that the BT fixed telecommunications network is in accordance with relevant safety legislation. BT, however, cannot influence the possibility of a fault occurring or a Rise of Earth Potential on customers' premises and therefore customers are responsible for protecting themselves and the BT network from these possibilities in respect of both safety and protection.

Provided the customer observes these requirements then the safety status of Approved Apparatus will not be compromised whilst it is connected to the NTP.

2.2 Classification of interfaces

In the meanings of the terms described in CENELEC Report/ETSI Guide R0BT-002/EG 201 212, customer interfaces of the BT fixed telecommunications network are considered to be in an exposed environment when presented as electrical conductors unless included in Table 1 of this SIN.

SIN	Title
431	Openreach Wholesale Extension Services 10, Wholesale End to End Extension Services (WES/WEES 10) and Wholesale Extension Service Local Access 10 (WES-LA 10), Service & Interface Description
432	Openreach Wholesale Extension Services 10 And Wholesale End To End Extension Services Local Reach (WES/WEES 10LR)
433	Openreach Wholesale Extension Service 100 (WES 100), Wholesale End to End Extension Services 100 (WEES100) and Wholesale Extension Services Local Access 100 (WES-LA 100), Service & Interface Description
444	Openreach Backhaul Extension Services 10 (BES 10), Service & Interface Description
445	Openreach Backhaul Extension Services 100 (BES 100), Service & Interface Description

Table 1. SINs describing interfaces presented as electrical conductors but considered to be in an unexposed environment.

Information on the normal operating voltages at an NTP is contained in the SIN for the particular service.

3 EMC

Network Terminating Points of BT's fixed telecommunications network comply with the current EMC regulations.

BT, however, cannot prevent the possibility that high levels of radio frequency electromagnetic signals may be present at any interface, having been induced into our network infrastructure from external sources and not as a result of the equipment that BT uses to provide the interface. Such electromagnetic signals may impact the performance of equipment connected to the network interface.

4 Glossary

CENELEC	European Committee for Electrotechnical Standardisation
EMC	Electro-Magnetic Compatibility
ETSI	European Telecommunications Standards Institute
LAN	Local Area Network
NTP	Network Termination Point
SIN	Suppliers Information Note

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5 References

CENELEC Report/ETSI Guide

R0BT-002/EG 201 212	Electrical safety; Classification of interfaces for equipment to be connected to telecommunication networks

6 History

Issue 1.0	October 2000	First issue of SIN 367
Issue 2.0	February 2002	LES 10 and LES 100 added to Table 1. Reference to BT Generic Standard GS7 added.
Issue 2.1	March 2003	Editorial change.
Issue 2.2	April 2004	Editorial changes.
Issue 2.3	February 2009	Table 1 updated to include all of the currently relevant services. Also minor editorial changes.
Issue 2.4	November 2011	Update to text on EMC
Issue 2.5	January 2013	Hyperlink to BT GS & added.
Issue 2.6	June 2016	Change SINet site references from http://www.sinet.bt.com to http://www.btplc.com/sinet/
Issue 2.7	July 2020	Change SINet site references from http://www.btplc.com/sinet/ to https://www.bt.com/about/sinet
Issue 2.8	January 2021	Editorial and note regarding GS7 removed
Issue 2.9	March 2023	Minor editorial changes
Issue 2.10	March 2024	Reference to withdrawn SIN deleted

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